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**TO: Examiner P. Marcantoni  
Group Art Unit: 1755**

**Fax No.: 703-872-9311**

**From: James G. Stewart**

**Date: December 10, 2001**

**Re: Serial No. 09/481,988  
Filed: January 11, 2000  
Our Docket No.: 1941-70**

**Number of Pages (including this page): 21**

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RESPONSE UNDER 37 CFR 1.116  
EXPEDITED PROCEDURE  
EXAMINING GROUP 1755

PATENT APPLICATION  
Do. No. 1941-70

# **CERTIFICATE OF FACSIMILE TRANSMISSION**

I HEREBY CERTIFY THAT THE FOLLOWING RESPONSE TO THE FINAL OFFICE ACTION DATED OCTOBER 25, 2001 TO GROUP ART UNIT 1755 (EXAMINER P. MARCANTONI) IS BEING FACSIMILE TRANSMITTED TO THE PATENT AND TRADEMARK OFFICE (FACSIMILE NO. (703) 872-9311) (AS DIRECTED) ON (DECEMBER 10, 2001). (TOTAL PAGES TRANSMITTED IS 20 INCLUDING THIS ONE).

JUDY WIGMORE  
(SENDER'S PRINTED NAME)

Judy Wigmore  
(SIGNATURE)

## **IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Paul J. BRUINSMA; Suresh BASKARAN;  
Jagannadha R. BONTA and Jun LIU

Serial No. 09/481,988

Examiner: P. Marcantoni

Filed: January 11, 2000

Group Art Unit: 1755

For: MESOPOROUS-SILICA FILMS, FIBERS, AND POWDERS BY EVAPORATION

**Box AF**

Assistant Commissioner for Patents  
Washington, D.C. 20231

## **TRANSMITTAL LETTER**

Responsive to the Final Office Action dated October 25, 2001, enclosed is an amendment in the above-identified application.

The fee has been calculated as shown below.

<b>CLAIMS AS AMENDED</b>					
For:	Number After Amendment	Previous Number	Extra	Rate	Additional Fee
Total Claims	66	-66*	0	x \$9 =	\$0
Independent Claims	14	-14**	0	x \$40 =	\$0
<b>TOTAL ADDITIONAL FEE FOR THIS AMENDMENT</b>					<b>\$0</b>

Transmittal

1

MJM Do. No. 1941-70

☒ Any deficiency or overpayment should be charged or credited to deposit account number 13-1703.



20575

PATENT TRADEMARK OFFICE

Respectfully submitted,

MARGER JOHNSON & McCOLLOM, PC

James G. Stewart  
Reg. No. 32,496

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1030 SW Morrison Street  
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12/12/01  
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RESPONSE UNDER 37 CFR 1.116  
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PATENT APPLICATION  
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**AMENDMENT AFTER FINAL REJECTION UNDER 37 CFR 1.116**

Responsive to the final Office Action, dated October 25/2001, please amend the application as follows.

**IN THE CLAIMS**

Please amend the claims as follows:

1. A method of making mesoporous silica materials, comprising the steps of
  - (a) combining a silica precursor with an aqueous solvent, an acid and a surfactant having an ammonium cation into a silica precursor solution,
  - (b) templating the silica precursor with the surfactant and obtaining the mesoporous material from the templated silica precursor,
  - (c) forming said silica precursor solution into a preform; and
  - (d) rapidly evaporating said aqueous solvent from said preform for obtaining the mesoporous material, wherein the improvement comprises:
    - (i) providing said aqueous solvent in an amount resulting in complete hydrolysis and providing said acid in an amount maintaining a hydrolyzed precursor and avoiding gelation or precipitation; and

RESPONSE TO FINAL  
OFFICE ACTION

PAGE 1 of 18

DO. NO. 1941-70